

DOCUMENTED QUOTE

Arapahoe Community College
5900 S. Santa Fe Drive
Littleton, CO 80120

Stephen. Rosenthal, Purchasing Coordinator
Phone: 303 797 5753 Fax: 303 797 3942

ACC DQ 15-0401

Post Date: 04/02/2015

Submission Due Date: 04/16/2015 11:00 AM (MT)

Quotes will be accepted via e-mail to stephen.rosenthal@arapahoe.edu (preferred) or Fax at 303 797 3942 prior to opening date of **04-16-2015 at 2:00 p.m. (MT)**. Please include the quote number in the subject line. Acceptable quotes must include pricing for all products and services listed.

OPTIONAL WALK-THRU: Potential respondents may request a walk-thru no later than April 9th, 12 Noon. Contact Greg Corliss @ 303 797 5733 for an appointment.

The **Arapahoe Community College System** is accepting bids for the purchase of **Audio-Video Classroom Upgrades**

Specifications: Price quote must include delivery (FOB Destination) to Arapahoe Community College, 5900 S. Santa Fe Drive, Littleton, CO 80120. All quotes must be submitted on the quote form provided. **No Substitutions will be considered.**

PROJECT SUMMARY:

1. This quote shall outline the purchase of equipment for 13 rooms (**NOTE: Installation and labor by Room Number and Room Diagrams**) and integration in 10 of the rooms. Three rooms will be installed by ACC. This is an Extron control project with Da-Lite electric screens to replace current manual screens and Epson PL-935W WXGA projectors to replace current projectors. The objective is to use current installed equipment where possible, while upgrading the analog infrastructure with HDMI to each room. Each room will have new labels for updating the button panel. Also each room gets a 3RU blank panel for the rack. Equipment that is replaced will be placed in a designated storage area for surplus processing, and coordinated with the ACC project lead.

Description:

Audio-Video Classroom Upgrades – Brand Model Specific as listed:

ROOM M4150

UNIT PRICE

EXT PRICE

Audio

- | | | | |
|---|--|----|----|
| 1 | Extron MPA 401
Mono 70/100 V Amplifier - 40 Watt
Extron Electronics 60-845-01
60-845-01
• 40 watts rms output power @ 70 volts or 100 volts
• ENERGY STAR® qualified amplifier
• Extron Patented CDRS™ - Class D Ripple Suppression
• Front panel bass, treble, and input level controls
• UL 2043 plenum rated
• Balanced and unbalanced buffered audio inputs | \$ | \$ |
| 2 | Extron 70 Volt Step Up Transformer for FF120 Extron Speakers
Extron Electronics 881147 (special order)
Existing PV AMP with 4/8 ohm. Add this transformer to each FF120 speaker to change to 70V to use with MPA 401 70 volt amplifier. | \$ | \$ |

ROOM M4150**Control**

		UNIT PRICE	EXT PRICE
1	Extron IN1606 Six Input HDCP-Compliant Scaling Presentation Switcher Extron Electronics 60-1081-01 <i>The Extron IN1606 is a six input, HDCP-compliant video scaler that includes four HDMI inputs, two universal analog video inputs, and two simultaneous HDMI outputs. The IN1606 accepts a wide variety of video formats including HDMI, HDTV, RGB, and standard definition video. It features an advanced video scaling engine with 1080i deinterlacing and Deep Color processing with support for up to 1920x1200 and 2K output resolutions. Enhanced audio features include six stereo inputs, two variable stereo outputs, two mic/line inputs with ducking, plus HDMI audio embedding and de-embedding. Designed for professional AV integration, the IN1606 offers flexible control options including Ethernet, RS-232,</i>	\$	\$
1	Extron DTP HDMI 230 RX Receiver Extron Electronics 60-1271-13 <i>60-1271-13. Receives HDMI plus control and analog audio up to 230 feet (70 meters) over a single CATx cable</i> • Supports computer-video to 1920x1200, including HDTV 1080p/60 Deep Color and 2K • Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable • Extron XTP DTP 24 Shielded Twisted Pair cable provides added protection from outside interference and ensures high quality signal transmission • Accepts additional analog stereo audio signals • Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC	\$	\$
1	DTP HDMI 230 TX Transmitter Extron Electronics 60-1271-12 <i>60-1271-12 • Transmits HDMI plus control and analog audio up to 230 feet (70 meters) over a single CATx cable</i> • Supports computer-video to 1920x1200, including HDTV 1080p/60 Deep Color and 2K • Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable • Extron XTP DTP 24 Shielded Twisted Pair cable provides added protection from outside interference and ensures high quality signal transmission • Accepts additional analog stereo audio signals • Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC	\$	\$
2	3ft 24AWG CL2 High Speed HDMI® Cable w/ Net Jacket - Black Monoprice 3991 <i>•1080p Resolution - The High Speed HDMI Cable has sufficient bandwidth to transfer 1080p video signals between 1080p rated source and sink (display) devices.</i> <i>•Audio Return Channel - Normally, your HDMI cable carries audio information along with the video from a source device (e.g. blu-ray player) to the sink device (display/television). Often times this goes through an AV receiver to drive a home theater audio system. The Audio Return Channel is primarily used to send the audio signal generated by the television when its internal tuner is used, back to the AV receiver, so that you can use your home theater audio system when watching television signals.</i>	\$	\$

ROOM M4150**UNIT PRICE****EXT PRICE**

1	6ft 24AWG CL2 High Speed HDMI® Cable w/ Net Jacket - Black Monoprice ID# 3661 <i>The CL2 rating on this cable indicates that its outer jacket has been designed to burn more slowly, thereby making it safe for use inside or through the walls of residential classed buildings. The CL2 rating ensures that your cable installation complies with fire safety codes and insurance requirements. 1080p Resolution - The High Speed HDMI® Cable has sufficient bandwidth to transfer 1080p video signals between 1080p rated source and sink (display) devices. Audio Return Channel - Normally, your HDMI® cable carries audio information along with the video from a source device (e.g. blu-ray player) to the sink device (display/television).</i>	\$	\$
1	Extron Backlit Button Labels for the MLC series Button Pads Extron Electronics 33-1344-01 <i>For use with Extron products that feature 0.59 inch backlit buttons</i> • Includes text and icons for commonly used devices and functions, such as PCs, laptops, DVDs, and room lighting • Enables quick and easy operation of the switcher or control panel	\$	\$

Rack Mount Equipment

1	Middle Atlantic Essex Blank Panels, 3 RU, 2 pack Middle Atlantic FB-panel-3U-2PK <i>Essex Blank Panels are ideal for achieving effective thermal management of the rack system. Designed to fit perfectly in any Essex rack, these panels help ensure that installed AV systems run reliably and are finished with a professional touch.</i>	\$	\$
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Video

1	Da-Lite 34572 Advantage Electrol 16:10, 60" x 96" screen with Matte White surface Da-Lite 34572 <i>Designed to eliminate the extra step of finishing the screen with trim, the Advantage line of projection screens is designed with ceiling trim already in place. Once the screen is installed, the screen's trim conceals the rough opening eliminating the need to complete additional trim work. Sliding installation brackets make it easy to attach the screen housing to the structure above the drop ceiling. All Deluxe screens feature a closure door that hides the open space and screen in the ceiling, providing a cleaner aesthetic.</i> • Standard Low Voltage Control (LVC) to keep your screen operation flexible • UL Plenum rated case • White powder-coated closure doors and case	\$	\$
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ROOM M4150		UNIT PRICE	EXT PRICE
1	Epson Powerlite 935W WXGA 3LCD Projector Epson Powerlite 935W <i>The PowerLite 935W brings larger-than-life, widescreen images and astonishing brightness with 3700 lumens of color brightness and 3700 lumens of white brightness¹ to your classroom, suitable for almost any lighting condition. The 935W is equipped with a microphone input and premium 16 W speaker, so all your students will hear the lesson, without costly speakers or voice strain on the part of the presenter. Connect your projector to your laptop or Blu-ray® player via HDMI, to enhance your presentation. Or, display and control content from your iOS or Android™ mobile device with the Epson iProjection™ App².</i>	\$	\$
1	Chief Speed-Connect Above Tile Suspended Ceiling Kit Chief Mfg. CMS440 •WireVice Cable Suspension System for quick and easy tie-off •TwisTile Ceiling Tile Cutter easily pierces a circular hole in the ceiling tile for extension column •Flexible solution provides infinite column placement within a 2' x 2' or 2' x 4' ceiling tile •Single and dual electrical outlet cutouts •All-Points Security System provides exclusive locking hardware at column connection point to protect against theft •Includes (4) 25' flexible cables, (4) wood eyebolts, (4) concrete anchors and a chrome trim ring •Fits 24" (600 mm) wide ceiling tile grids •1.5" NPT compatible	\$	\$
1	Chief Mfg. 6" FIXED PIPE WHITE Chief Mfg. CMS006 CMS-006-W	\$	\$
1	Chief Mfg. RPA Elite Projector Security Mount (Lock A) White Chief Mfg. RPMA1 RPMA1-W Features •Microzone Adjustments make projector registration fast and precise (including flush mount installations) •Centris Technology enables effortless fingertip positioning and self-adjusts to support different projector weights •Quick connect/disconnect for convenient lamp and filter access on most projectors •Maintains registration when disconnected and doesn't affect preset adjustments •Cable management without additional accessories •Complete security with a universal mounting interface with secured mounting points for high-risk environments	\$	\$

ROOM M4150**UNIT PRICE****EXT PRICE****Labor**

1	installation <i>Removal of manual screen, install new screen with control. Install Extron IN-1606, TX/RX HDMI to Epson Projector. Transformers on speakers with new 70 volt amplifier.</i>	\$	\$
1	Extron Programming <i>Extron CUSTOM PROGRAMING of IN-1606, which includes the newly updated config. file, new IP address, subnet, and default gateway.</i>	\$	\$

Room M4150 Total \$

Labor \$

Equipment \$

ROOM A2210**UNIT PRICE****EXT PRICE****Audio**

1	Extron MPA 401 Mono 70/100 V Amplifier - 40 Watts Extron Electronics 60-845-01 60-845-01 • 40 watts rms output power @ 70 volts or 100 volts • ENERGY STAR® qualified amplifier • Extron Patented CDRS™ - Class D Ripple Suppression • Front panel bass, treble, and input level controls • UL 2043 plenum rated • Balanced and unbalanced buffered audio inputs	\$	\$
2	Extron 70 Volt Step Up Transformer for FF120 Extron Speakers Extron Electronics 881147 (special order) <i>Existing PV AMP with 4/8 ohm. Add this transformer to each FF120 speaker to change to 70V to use with MPA 401 70 volt amplifier.</i>	\$	\$

Control

1	Extron IN1606 Six Input HDCP-Compliant Scaling Presentation Switcher Extron Electronics 60-1081-01 <i>The Extron IN1606 is a six input, HDCP-compliant video scaler that includes four HDMI inputs, two universal analog video inputs, and two simultaneous HDMI outputs. The IN1606 accepts a wide variety of video formats including HDMI, HDTV, RGB, and standard definition video. It features an advanced video scaling engine with 1080i deinterlacing and Deep Color processing with support for up to 1920x1200 and 2K output resolutions. Enhanced audio features include six stereo inputs, two variable stereo outputs, two mic/line inputs with ducking, plus HDMI audio embedding and de-embedding. Designed for professional AV integration, the IN1606 offers flexible control options including Ethernet, RS-232,</i>	\$	\$
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ROOM A2210

UNIT PRICE

EXT PRICE

1	DTP HDMI 230 TX Transmitter Extron Electronics 60-1271-12 60-1271-12 • Transmits HDMI plus control and analog audio up to 230 feet (70 meters) over a single CATx cable • Supports computer-video to 1920x1200, including HDTV 1080p/60 Deep Color and 2K • Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable • Extron XTP DTP 24 Shielded Twisted Pair cable provides added protection from outside interference and ensures high quality signal transmission • Accepts additional analog stereo audio signals • Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC	\$	\$
1	Extron DTP HDMI 230 RX Receiver Extron Electronics 60-1271-13 60-1271-13. Receives HDMI plus control and analog audio up to 230 feet (70 meters) over a single CATx cable • Supports computer-video to 1920x1200, including HDTV 1080p/60 Deep Color and 2K • Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable • Extron XTP DTP 24 Shielded Twisted Pair cable provides added protection from outside interference and ensures high quality signal transmission • Accepts additional analog stereo audio signals • Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC	\$	\$
2	3ft 24AWG CL2 High Speed HDMI® Cable w/ Net Jacket - Black Monoprice 3991 • 1080p Resolution - The High Speed HDMI Cable has sufficient bandwidth to transfer 1080p video signals between 1080p rated source and sink (display) devices. • Audio Return Channel - Normally, your HDMI cable carries audio information along with the video from a source device (e.g. blu-ray player) to the sink device (display/television). Often times this goes through an AV receiver to drive a home theater audio system. The Audio Return Channel is primarily used to send the audio signal generated by the television when its internal tuner is used, back to the AV receiver, so that you can use your home theater audio system when watching television signals.	\$	\$
1	Extron Backlit Button Labels for the MLC series Button Pads Extron Electronics 33-1344-01 For use with Extron products that feature 0.59 inch backlit buttons • Includes text and icons for commonly used devices and functions, such as PCs, laptops, DVDs, and room lighting • Enables quick and easy operation of the switcher or control panel	\$	\$

ROOM A2210

UNIT PRICE

EXT PRICE

Video

1	Da-Lite 34572 Advantage Electrol 16:10, 60" x 96" screen with Matte White surface Da-Lite 34572 <i>Designed to eliminate the extra step of finishing the screen with trim, the Advantage line of projection screens is designed with ceiling trim already in place. Once the screen is installed, the screen's trim conceals the rough opening eliminating the need to complete additional trim work.</i> <i>Sliding installation brackets make it easy to attach the screen housing to the structure above the drop ceiling.</i> <i>All Deluxe screens feature a closure door that hides the open space and screen in the ceiling, providing a cleaner aesthetic.</i> •Standard Low Voltage Control (LVC) to keep your screen operation flexible •UL Plenum rated case •White powder-coated closure doors and case	\$	\$
1	Epson Powerlite 935W WXGA 3LCD Projector Epson Powerlite 935W <i>The PowerLite 935W brings larger-than-life, widescreen images and astonishing brightness with 3700 lumens of color brightness and 3700 lumens of white brightness¹ to your classroom, suitable for almost any lighting condition. The 935W is equipped with a microphone input and premium 16 W speaker, so all your students will hear the lesson, without costly speakers or voice strain on the part of the presenter. Connect your projector to your laptop or Blu-ray® player via HDMI, to enhance your presentation. Or, display and control content from your iOS or Android™ mobile device with the Epson iProjection™ App².</i>	\$	\$
1	Chief Speed-Connect Above Tile Suspended Ceiling Kit Chief Mfg. CMS440 •WireVice Cable Suspension System for quick and easy tie-off •TwisTile Ceiling Tile Cutter easily pierces a circular hole in the ceiling tile for extension column •Flexible solution provides infinite column placement within a 2' x 2' or 2' x 4' ceiling tile •Single and dual electrical outlet cutouts •All-Points Security System provides exclusive locking hardware at column connection point to protect against theft •Includes (4) 25' flexible cables, (4) wood eyebolts, (4) concrete anchors and a chrome trim ring •Fits 24" (600 mm) wide ceiling tile grids •1.5" NPT compatible	\$	\$
1	Chief Mfg. 6" FIXED PIPE WHITE Chief Mfg. CMS006 CMS-006-W	\$	\$

ROOM A2210**UNIT PRICE****EXT PRICE**

1 Chief Mfg. RPA Elite Projector Security Mount (Lock A) White \$ \$

Chief Mfg. RPMA1

RPMA1-W

Features

- Microzone Adjustments make projector registration fast and precise (including flush mount installations)
- Centris Technology enables effortless fingertip positioning and self-adjusts to support different projector weights
- Quick connect/disconnect for convenient lamp and filter access on most projectors
- Maintains registration when disconnected and doesn't affect preset adjustments
- Cable management without additional accessories
- Complete security with a universal mounting interface with secured mounting points for high-risk environments

Labor

1 installation \$ \$

Removal of manual screen, install new screen with control. Install Extron IN-1606, TX/RX HDMI to Epson Projector. Transformers on speakers with new 70 volt amplifier.

1 Extron Programming \$ \$

Extron CUSTOM PROGRAMING of IN-1606, which includes the newly updated config. file, new IP address, subnet, and default gateway.

Room A2210 Total \$

Labor \$

Equipment \$

ROOM M1850**UNIT PRICE EXT PRICE****Audio**

1 Extron MPA 401

Mono 70/100 V Amplifier - 40 Watts \$ \$

Extron Electronics 60-845-01

60-845-01

- 40 watts rms output power @ 70 volts or 100 volts
- ENERGY STAR® qualified amplifier
- Extron Patented CDRS™ - Class D Ripple Suppression
- Front panel bass, treble, and input level controls
- UL 2043 plenum rated
- Balanced and unbalanced buffered audio inputs

ROOM M1850

UNIT PRICE EXT PRICE

2	Extron 70 Volt Step Up Transformer for FF120 Extron Speakers Extron Electronics 881147 (special order) <i>Existing PV AMP with 4/8 ohm. Add this transformer to each FF120 speaker to change to 70V to use with MPA 401 70 volt amplifier.</i>	\$	\$
Control			
1	Extron IN1606 Six Input HDCP-Compliant Scaling Presentation Switcher Extron Electronics 60-1081-01 <i>The Extron IN1606 is a six input, HDCP-compliant video scaler that includes four HDMI inputs, two universal analog video inputs, and two simultaneous HDMI outputs. The IN1606 accepts a wide variety of video formats including HDMI, HDTV, RGB, and standard definition video. It features an advanced video scaling engine with 1080i deinterlacing and Deep Color processing with support for up to 1920x1200 and 2K output resolutions. Enhanced audio features include six stereo inputs, two variable stereo outputs, two mic/line inputs with ducking, plus HDMI audio embedding and de-embedding. Designed for professional AV integration, the IN1606 offers flexible control options including Ethernet, RS-232,</i>	\$	\$
1	DTP HDMI 230 TX Transmitter Extron Electronics 60-1271-12 <i>60-1271-12 • Transmits HDMI plus control and analog audio up to 230 feet (70 meters) over a single CATx cable</i> <i>• Supports computer-video to 1920x1200, including HDTV 1080p/60 Deep Color and 2K</i> <i>• Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable</i> <i>• Extron XTP DTP 24 Shielded Twisted Pair cable provides added protection from outside interference and ensures high quality signal transmission</i> <i>• Accepts additional analog stereo audio signals</i> <i>• Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC</i>	\$	\$
1	Extron DTP HDMI 230 RX Receiver Extron Electronics 60-1271-13 <i>60-1271-13. Receives HDMI plus control and analog audio up to 230 feet (70 meters) over a single CATx cable</i> <i>• Supports computer-video to 1920x1200, including HDTV 1080p/60 Deep Color and 2K</i> <i>• Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable</i> <i>• Extron XTP DTP 24 Shielded Twisted Pair cable provides added protection from outside interference and ensures high quality signal transmission</i> <i>• Accepts additional analog stereo audio signals</i> <i>• Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC</i>	\$	\$

ROOM M1850**UNIT PRICE EXT PRICE**

2	3ft 24AWG CL2 High Speed HDMI® Cable w/ Net Jacket - Black Monoprice 3991 •1080p Resolution - The High Speed HDMI Cable has sufficient bandwidth to transfer 1080p video signals between 1080p rated source and sink (display) devices. •Audio Return Channel - Normally, your HDMI cable carries audio information along with the video from a source device (e.g. blu-ray player) to the sink device (display/television). Often times this goes through an AV receiver to drive a home theater audio system. The Audio Return Channel is primarily used to send the audio signal generated by the television when its internal tuner is used, back to the AV receiver, so that you can use your home theater audio system when watching television signals.	\$	\$
1	6ft 24AWG CL2 High Speed HDMI® Cable w/ Net Jacket - Black Monoprice ID# 3661 The CL2 rating on this cable indicates that its outer jacket has been designed to burn more slowly, thereby making it safe for use inside or through the walls of residential classed buildings. The CL2 rating ensures that your cable installation complies with fire safety codes and insurance requirements. 1080p Resolution - The High Speed HDMI® Cable has sufficient bandwidth to transfer 1080p video signals between 1080p rated source and sink (display) devices. Audio Return Channel - Normally, your HDMI® cable carries audio information along with the video from a source device (e.g. blu-ray player) to the sink device (display/television).	\$	\$
1	Extron Backlit Button Labels for the MLC series Button Pads Extron Electronics 33-1344-01 For use with Extron products that feature 0.59 inch backlit buttons • Includes text and icons for commonly used devices and functions, such as PCs, laptops, DVDs, and room lighting • Enables quick and easy operation of the switcher or control panel	\$	\$

Rack Mount Equipment

1	Middle Atlantic Essex Blank Panels, 3 RU, 2 pack Middle Atlantic FB-panel-3U-2PK Essex Blank Panels are ideal for achieving effective thermal management of the rack system. Designed to fit perfectly in any Essex rack, these panels help ensure that installed AV systems run reliably and are finished with a professional touch.	\$	\$
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Video

1	Epson PowerLite 935W WXGA 3LCD Projector Epson PowerLite 935W The PowerLite 935W brings larger-than-life, widescreen images and astonishing brightness with 3700 lumens of color brightness and 3700 lumens of white brightness¹ to your classroom, suitable for almost any lighting condition. The 935W is equipped with a microphone input and premium 16 W speaker, so all your students will hear the lesson, without costly speakers or voice strain on the part of the presenter. Connect your projector to your laptop or Blu-ray® player via HDMI, to enhance your presentation. Or, display and control content from your iOS or Android™ mobile device with the Epson iProjection™ App².	\$	\$
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ROOM M1850**UNIT PRICE EXT PRICE**

1	Chief Speed-Connect Above Tile Suspended Ceiling Kit Chief Mfg. CMS440 •WireVice Cable Suspension System for quick and easy tie-off •TwisTile Ceiling Tile Cutter easily pierces a circular hole in the ceiling tile for extension column •Flexible solution provides infinite column placement within a 2' x 2' or 2' x 4' ceiling tile •Single and dual electrical outlet cutouts •All-Points Security System provides exclusive locking hardware at column connection point to protect against theft •Includes (4) 25' flexible cables, (4) wood eyebolts, (4) concrete anchors and a chrome trim ring •Fits 24" (600 mm) wide ceiling tile grids •1.5" NPT compatible	\$	\$
1	Chief Mfg. 6" FIXED PIPE WHITE Chief Mfg. CMS006 CMS-006-W	\$	\$
1	Chief Mfg. RPA Elite Projector Security Mount (Lock A) White Chief Mfg. RPMA1 RPMA1-W Features •Microzone Adjustments make projector registration fast and precise (including flush mount installations) •Centris Technology enables effortless fingertip positioning and self-adjusts to support different projector weights •Quick connect/disconnect for convenient lamp and filter access on most projectors •Maintains registration when disconnected and doesn't affect preset adjustments •Cable management without additional accessories •Complete security with a universal mounting interface with secured mounting points for high-risk environments	\$	\$
Labor			
1	installation Install of Extron IN-1606, TX/RX HDMI to Epson projector, new amp and transformers for existing speakers.	\$	\$
1	Extron Programming Extron CUSTOM PROGRAMING of IN-1606, which includes the newly updated config. file, new IP address, subnet, and default gateway.	\$	\$
Room M1850 Total		Labor \$	Equipment \$

INFRASTRUCTURE**UNIT PRICE EXT PRICE****Audio**

1	Liberty AV 16 AWG 2-conductor speaker cable - plenum LIBERTY AV 16-2C-P plenum 16-2C-P-BLK 16g 2-conductor speaker cable - plenum - 1K' roll	\$	\$
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Control

1	Liberty A/V CAT 6 23 AWG 4 PAIR SHIELDED CABLE - Plenum LIBERTY AV 24-4P-P-L6SH-WHT 24-4P-P-L6SH-WHT. ## 23 AWG Solid Bare Copper Conductors FEP, Fluorinated Ethylene Propylene (Teflon(TM)) Color Striping on white conductors Varying lay twisted pairs cabled on a common axis 100% Foil shield with foil and drain facing in Ripcord under the jacket ## PL-PVC, Plenum rated Polyvinyl Chloride Alloy Jacket Third Party (UL, ETL) certified to Category 6 performance NEC Rated CMP, CEC Rated CMP, CMG FT6, RoHS Compliant 1000 Foot Spools Standard	\$	\$
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INFRASTRUCTURE Total

Labor \$

Equipment \$

ROOM M4080**UNIT PRICE EXT PRICE****Audio**

1	Extron MPA 401		
	Mono 70/100 V Amplifier - 40 Watts Extron Electronics 60-845-01 60-845-01 • 40 watts rms output power @ 70 volts or 100 volts • ENERGY STAR® qualified amplifier • Extron Patented CDRS™ - Class D Ripple Suppression • Front panel bass, treble, and input level controls • UL 2043 plenum rated • Balanced and unbalanced buffered audio inputs	\$	\$
2	Extron 70 Volt Step Up Transformer for FF120 Extron Speakers Extron Electronics 881147 (special order) Existing PV AMP with 4/8 ohm. Add this transformer to each FF120 speaker to change to 70V to use with MPA 401 70 volt amplifier.	\$	\$

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ROOM M4080

UNIT PRICE EXT PRICE

1	DTP HDMI 230 TX Transmitter Extron Electronics 60-1271-12 60-1271-12 • Transmits HDMI plus control and analog audio up to 230 feet (70 meters) over a single CATx cable • Supports computer-video to 1920x1200, including HDTV 1080p/60 Deep Color and 2K • Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable • Extron XTP DTP 24 Shielded Twisted Pair cable provides added protection from outside interference and ensures high quality signal transmission • Accepts additional analog stereo audio signals • Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC	\$	\$
1	Extron DTP HDMI 230 RX Receiver Extron Electronics 60-1271-13 60-1271-13. Receives HDMI plus control and analog audio up to 230 feet (70 meters) over a single CATx cable • Supports computer-video to 1920x1200, including HDTV 1080p/60 Deep Color and 2K • Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable • Extron XTP DTP 24 Shielded Twisted Pair cable provides added protection from outside interference and ensures high quality signal transmission • Accepts additional analog stereo audio signals • Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC	\$	\$
2	3ft 24AWG CL2 High Speed HDMI® Cable w/ Net Jacket - Black Monoprice 3991 •1080p Resolution - The High Speed HDMI Cable has sufficient bandwidth to transfer 1080p video signals between 1080p rated source and sink (display) devices. •Audio Return Channel - Normally, your HDMI cable carries audio information along with the video from a source device (e.g. blu-ray player) to the sink device (display/television). Often times this goes through an AV receiver to drive a home theater audio system. The Audio Return Channel is primarily used to send the audio signal generated by the television when its internal tuner is used, back to the AV receiver, so that you can use your home theater audio system when watching television signals.	\$	\$
1	Extron Backlit Button Labels for the MLC series Button Pads Extron Electronics 33-1344-01 For use with Extron products that feature 0.59 inch backlit buttons • Includes text and icons for commonly used devices and functions, such as PCs, laptops, DVDs, and room lighting • Enables quick and easy operation of the switcher or control panel	\$	\$

ROOM M4080**UNIT PRICE EXT PRICE****Video**

- | | | | |
|---|--|----|----|
| 1 | Da-Lite 34572 Advantage Electrol 16:10, 60" x 96" screen with Matte White surface
Da-Lite 34572 | \$ | \$ |
|---|--|----|----|

Designed to eliminate the extra step of finishing the screen with trim, the Advantage line of projection screens is designed with ceiling trim already in place. Once the screen is installed, the screen's trim conceals the rough opening eliminating the need to complete additional trim work.

Sliding installation brackets make it easy to attach the screen housing to the structure above the drop ceiling.

All Deluxe screens feature a closure door that hides the open space and screen in the ceiling, providing a cleaner aesthetic.

- Standard Low Voltage Control (LVC) to keep your screen operation flexible
- UL Plenum rated case
- White powder-coated closure doors and case

Labor

- | | | | |
|---|---|----|----|
| 1 | installation | \$ | \$ |
| | <i>Removal of manual screen, install new screen with control. Install Extron IN-1606, TX/RX HDMI to Epson Projector. Transformers on speakers with new 70 volt amplifier.</i> | | |
| 1 | Extron Programming | \$ | \$ |
| | <i>Extron CUSTOM PROGRAMING of IN-1606, which includes the newly updated config. file, new IP address, subnet, and default gateway.</i> | | |

ROOM 4080 Total

Labor \$

Equipment \$

ROOM 4780**UNIT PRICE EXT PRICE****Control**

- | | | | |
|---|---|----|----|
| 1 | Extron IN1606 Six Input HDCP-Compliant Scaling Presentation Switcher
Extron Electronics 60-1081-01 | \$ | \$ |
|---|---|----|----|

The Extron IN1606 is a six input, HDCP-compliant video scaler that includes four HDMI inputs, two universal analog video inputs, and two simultaneous HDMI outputs. The IN1606 accepts a wide variety of video formats including HDMI, HDTV, RGB, and standard definition video. It features an advanced video scaling engine with 1080i deinterlacing and Deep Color processing with support for up to 1920x1200 and 2K output resolutions. Enhanced audio features include six stereo inputs, two variable stereo outputs, two mic/line inputs with ducking, plus HDMI audio embedding and de-embedding. Designed for professional AV integration, the IN1606 offers flexible control options including Ethernet, RS-232,

ROOM 4780		UNIT PRICE	EXT PRICE
1	DTP HDMI 230 TX Transmitter Extron Electronics 60-1271-12 60-1271-12 • Transmits HDMI plus control and analog audio up to 230 feet (70 meters) over a single CATx cable • Supports computer-video to 1920x1200, including HDTV 1080p/60 Deep Color and 2K • Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable • Extron XTP DTP 24 Shielded Twisted Pair cable provides added protection from outside interference and ensures high quality signal transmission • Accepts additional analog stereo audio signals • Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC	\$	\$
1	Extron DTP HDMI 230 RX Receiver Extron Electronics 60-1271-13 60-1271-13. Receives HDMI plus control and analog audio up to 230 feet (70 meters) over a single CATx cable • Supports computer-video to 1920x1200, including HDTV 1080p/60 Deep Color and 2K • Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable • Extron XTP DTP 24 Shielded Twisted Pair cable provides added protection from outside interference and ensures high quality signal transmission • Accepts additional analog stereo audio signals • Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC	\$	\$
2	3ft 24AWG CL2 High Speed HDMI® Cable w/ Net Jacket - Black Monoprice 3991 •1080p Resolution - The High Speed HDMI Cable has sufficient bandwidth to transfer 1080p video signals between 1080p rated source and sink (display) devices. •Audio Return Channel - Normally, your HDMI cable carries audio information along with the video from a source device (e.g. blu-ray player) to the sink device (display/television). Often times this goes through an AV receiver to drive a home theater audio system. The Audio Return Channel is primarily used to send the audio signal generated by the television when its internal tuner is used, back to the AV receiver, so that you can use your home theater audio system when watching television signals.	\$	\$

ROOM 4780		UNIT PRICE	EXT PRICE
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1	6ft 24AWG CL2 High Speed HDMI® Cable w/ Net Jacket - Black Monoprice ID# 3661 The CL2 rating on this cable indicates that its outer jacket has been designed to burn more slowly, thereby making it safe for use inside or through the walls of residential classed buildings. The CL2 rating ensures that your cable installation complies with fire safety codes and insurance requirements. 1080p Resolution - The High Speed HDMI® Cable has sufficient bandwidth to transfer 1080p video signals between 1080p rated source and sink (display) devices.Audio Return Channel - Normally, your HDMI® cable carries audio information along with the video from a source device (e.g. blu-ray player) to the sink device (display/television).	\$	\$
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1	Extron Backlit Button Labels for the MLC series Button Pads Extron Electronics 33-1344-01 <i>For use with Extron products that feature 0.59 inch backlit buttons</i> • Includes text and icons for commonly used devices and functions, such as PCs, laptops, DVDs, and room lighting • Enables quick and easy operation of the switcher or control panel	\$	\$
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Rack Mount Equipment

1	Middle Atlantic Essex Blank Panels, 3 RU, 2 pack Middle Atlantic FB-panel-3U-2PK <i>Essex Blank Panels are ideal for achieving effective thermal management of the rack system. Designed to fit perfectly in any Essex rack, these panels help ensure that installed AV systems run reliably and are finished with a professional touch.</i>	\$	\$
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Video

1	Da-Lite 34572 Advantage Electrol 16:10, 60" x 96" screen with Matte White surface Da-Lite 34572 <i>Designed to eliminate the extra step of finishing the screen with trim, the Advantage line of projection screens is designed with ceiling trim already in place. Once the screen is installed, the screen's trim conceals the rough opening eliminating the need to complete additional trim work. Sliding installation brackets make it easy to attach the screen housing to the structure above the drop ceiling. All Deluxe screens feature a closure door that hides the open space and screen in the ceiling, providing a cleaner aesthetic.</i> •Standard Low Voltage Control (LVC) to keep your screen operation flexible •UL Plenum rated case •White powder-coated closure doors and case	\$	\$
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Labor

1	installation <i>Removal of screen and install new, run wire for screen control, install Extron IN-1606, TX/RX HDMI to Epson projector, new amplifier.</i>	\$	\$
1	Extron Programming <i>Extron CUSTOM PROGRAMING of IN-1606, which includes the newly updated config. file, new IP address, subnet, and default gateway.</i>	\$	\$

ROOM 4780 Total Labor \$0.00 Equipment \$5,936.75

ROOM A2130

Audio

		UNIT PRICE	EXT PRICE
1	Extron MPA 401 Mono 70/100 V Amplifier - 40 Watts Extron Electronics 60-845-01 60-845-01 • 40 watts rms output power @ 70 volts or 100 volts • ENERGY STAR® qualified amplifier • Extron Patented CDRS™ - Class D Ripple Suppression • Front panel bass, treble, and input level controls • UL 2043 plenum rated • Balanced and unbalanced buffered audio inputs	\$	\$

2	Extron 70 Volt Step Up Transformer for FF120 Extron Speakers Extron Electronics 881147 (special order) <i>Existing PV AMP with 4/8 ohm. Add this transformer to each FF120 speaker to change to 70V to use with MPA 401 70 volt amplifier.</i>	\$	\$
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Control

1	Extron IN1606 Six Input HDCP-Compliant Scaling Presentation Switcher Extron Electronics 60-1081-01 <i>The Extron IN1606 is a six input, HDCP-compliant video scaler that includes four HDMI inputs, two universal analog video inputs, and two simultaneous HDMI outputs. The IN1606 accepts a wide variety of video formats including HDMI, HDTV, RGB, and standard definition video. It features an advanced video scaling engine with 1080i deinterlacing and Deep Color processing with support for up to 1920x1200 and 2K output resolutions. Enhanced audio features include six stereo inputs, two variable stereo outputs, two mic/line inputs with ducking, plus HDMI audio embedding and de-embedding. Designed for professional AV integration, the IN1606 offers flexible control options including Ethernet, RS-232,</i>	\$	\$
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1	DTP HDMI 230 TX Transmitter Extron Electronics 60-1271-12 <i>60-1271-12 • Transmits HDMI plus control and analog audio up to 230 feet (70 meters) over a single CATx cable</i> <i>• Supports computer-video to 1920x1200, including HDTV 1080p/60 Deep Color and 2K</i> <i>• Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable</i> <i>• Extron XTP DTP 24 Shielded Twisted Pair cable provides added protection from outside interference and ensures high quality signal transmission</i> <i>• Accepts additional analog stereo audio signals</i> <i>• Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC</i>	\$	\$
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ROOM A2130

UNIT PRICE EXT PRICE

1	Extron DTP HDMI 230 RX Receiver Extron Electronics 60-1271-13 <i>60-1271-13. Receives HDMI plus control and analog audio up to 230 feet (70 meters) over a single CATx cable</i> <i>• Supports computer-video to 1920x1200, including HDTV 1080p/60 Deep Color and 2K</i> <i>• Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable</i> <i>• Extron XTP DTP 24 Shielded Twisted Pair cable provides added protection from outside interference and ensures high quality signal transmission</i> <i>• Accepts additional analog stereo audio signals</i> <i>• Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC</i>	\$	\$
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2	3ft 24AWG CL2 High Speed HDMI® Cable w/ Net Jacket - Black Monoprice 3991 •1080p Resolution - The High Speed HDMI Cable has sufficient bandwidth to transfer 1080p video signals between 1080p rated source and sink (display) devices. •Audio Return Channel - Normally, your HDMI cable carries audio information along with the video from a source device (e.g. blu-ray player) to the sink device (display/television). Often times this goes through an AV receiver to drive a home theater audio system. The Audio Return Channel is primarily used to send the audio signal generated by the television when its internal tuner is used, back to the AV receiver, so that you can use your home theater audio system when watching television signals.	\$	\$
1	6ft 24AWG CL2 High Speed HDMI® Cable w/ Net Jacket - Black Monoprice ID# 3661 The CL2 rating on this cable indicates that its outer jacket has been designed to burn more slowly, thereby making it safe for use inside or through the walls of residential classed buildings. The CL2 rating ensures that your cable installation complies with fire safety codes and insurance requirements. 1080p Resolution - The High Speed HDMI® Cable has sufficient bandwidth to transfer 1080p video signals between 1080p rated source and sink (display) devices. Audio Return Channel - Normally, your HDMI® cable carries audio information along with the video from a source device (e.g. blu-ray player) to the sink device (display/television).	\$	\$
1	Extron Backlit Button Labels for the MLC series Button Pads Extron Electronics 33-1344-01 For use with Extron products that feature 0.59 inch backlit buttons • Includes text and icons for commonly used devices and functions, such as PCs, laptops, DVDs, and room lighting • Enables quick and easy operation of the switcher or control panel	\$	\$

ROOM A2130

UNIT PRICE EXT PRICE

Rack Mount Equipment

1	Middle Atlantic Essex Blank Panels, 3 RU, 2 pack Middle Atlantic FB-panel-3U-2PK Essex Blank Panels are ideal for achieving effective thermal management of the rack system. Designed to fit perfectly in any Essex rack, these panels help ensure that installed AV systems run reliably and are finished with a professional touch.	\$	\$
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Video

1	Epson PowerLite 935W WXGA 3LCD Projector Epson PowerLite 935W The PowerLite 935W brings larger-than-life, widescreen images and astonishing brightness with 3700 lumens of color brightness and 3700 lumens of white brightness1 to your classroom, suitable for almost any lighting condition. The 935W is equipped with a microphone input and premium 16 W speaker, so all your students will hear the lesson, without costly speakers or voice strain on the part of the presenter. Connect your projector to your laptop or Blu-ray® player via HDMI, to enhance your presentation. Or, display and control content from your iOS or Android™ mobile device with the Epson iProjection™ App2.	\$	\$
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1	Chief Speed-Connect Above Tile Suspended Ceiling Kit Chief Mfg. CMS440 •WireVice Cable Suspension System for quick and easy tie-off •TwisTile Ceiling Tile Cutter easily pierces a circular hole in the ceiling tile for extension column •Flexible solution provides infinite column placement within a 2' x 2' or 2' x 4' ceiling tile •Single and dual electrical outlet cutouts •All-Points Security System provides exclusive locking hardware at column connection point to protect against theft •Includes (4) 25' flexible cables, (4) wood eyebolts, (4) concrete anchors and a chrome trim ring •Fits 24" (600 mm) wide ceiling tile grids •1.5" NPT compatible	\$	\$
1	Chief Mfg. 6" FIXED PIPE WHITE Chief Mfg. CMS006 CMS-006-W	\$	\$

ROOM A2130

		UNIT PRICE	EXT PRICE
1	Chief Mfg. RPA Elite Projector Security Mount (Lock A) White Chief Mfg. RPMA1 RPMA1-W Features •Microzone Adjustments make projector registration fast and precise (including flush mount installations) •Centris Technology enables effortless fingertip positioning and self-adjusts to support different projector weights •Quick connect/disconnect for convenient lamp and filter access on most projectors •Maintains registration when disconnected and doesn't affect preset adjustments •Cable management without additional accessories •Complete security with a universal mounting interface with secured mounting points for high-risk environments	\$	\$

Labor

1	installation Removal of manual screen, install new screen with control. Install Extron IN-1606, TX/RX HDMI to Epson Projector. Transformers on speakers with new 70 volt amplifier.	\$	\$
1	Extron Programming Programming Extron CUSTOM PROGRAMING of IN-1606, which includes the newly updated config. file, new IP address, subnet, and default gateway.	\$	\$

ROOM A2130 Total

Labor \$

Equipment \$

ROOM A1420		UNIT PRICE	EXT PRICE
Audio			
1	Extron MPA 401 Mono 70/100 V Amplifier - 40 Watts Extron Electronics 60-845-01 60-845-01 • 40 watts rms output power @ 70 volts or 100 volts • ENERGY STAR® qualified amplifier • Extron Patented CDRS™ - Class D Ripple Suppression • Front panel bass, treble, and input level controls • UL 2043 plenum rated • Balanced and unbalanced buffered audio inputs	\$	\$
2	Extron 70 Volt Step Up Transformer for FF120 Extron Speakers Extron Electronics 881147 (special order) <i>Existing PV AMP with 4/8 ohm. Add this transformer to each FF120 speaker to change to 70V to use with MPA 401 70 volt amplifier.</i>	\$1	\$

ROOM A1420		UNIT PRICE	EXT PRICE
Control			
1	Extron IN1606 Six Input HDCP-Compliant Scaling Presentation Switcher Extron Electronics 60-1081-01 <i>The Extron IN1606 is a six input, HDCP-compliant video scaler that includes four HDMI inputs, two universal analog video inputs, and two simultaneous HDMI outputs. The IN1606 accepts a wide variety of video formats including HDMI, HDTV, RGB, and standard definition video. It features an advanced video scaling engine with 1080i deinterlacing and Deep Color processing with support for up to 1920x1200 and 2K output resolutions. Enhanced audio features include six stereo inputs, two variable stereo outputs, two mic/line inputs with ducking, plus HDMI audio embedding and de-embedding. Designed for professional AV integration, the IN1606 offers flexible control options including Ethernet, RS-232,</i>	\$	\$
1	DTP HDMI 230 TX Transmitter Extron Electronics 60-1271-12 60-1271-12 • Transmits HDMI plus control and analog audio up to 230 feet (70 meters) over a single CATx cable • Supports computer-video to 1920x1200, including HDTV 1080p/60 Deep Color and 2K • Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable • Extron XTP DTP 24 Shielded Twisted Pair cable provides added protection from outside interference and ensures high quality signal transmission • Accepts additional analog stereo audio signals • Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC	\$	\$

1	Extron DTP HDMI 230 RX Receiver Extron Electronics 60-1271-13 <i>60-1271-13. Receives HDMI plus control and analog audio up to 230 feet (70 meters) over a single CATx cable</i> • Supports computer-video to 1920x1200, including HDTV 1080p/60 Deep Color and 2K • Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable • Extron XTP DTP 24 Shielded Twisted Pair cable provides added protection from outside interference and ensures high quality signal transmission • Accepts additional analog stereo audio signals • Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC	\$	\$
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ROOM A1420	UNIT PRICE	EXT PRICE
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2	3ft 24AWG CL2 High Speed HDMI® Cable w/ Net Jacket - Black Monoprice 3991 •1080p Resolution - The High Speed HDMI Cable has sufficient bandwidth to transfer 1080p video signals between 1080p rated source and sink (display) devices. •Audio Return Channel - Normally, your HDMI cable carries audio information along with the video from a source device (e.g. blu-ray player) to the sink device (display/television). Often times this goes through an AV receiver to drive a home theater audio system. The Audio Return Channel is primarily used to send the audio signal generated by the television when its internal tuner is used, back to the AV receiver, so that you can use your home theater audio system when watching television signals.	\$	\$
1	6ft 24AWG CL2 High Speed HDMI® Cable w/ Net Jacket - Black Monoprice ID# 3661 <i>The CL2 rating on this cable indicates that its outer jacket has been designed to burn more slowly, thereby making it safe for use inside or through the walls of residential classed buildings. The CL2 rating ensures that your cable installation complies with fire safety codes and insurance requirements.</i> <i>1080p Resolution - The High Speed HDMI® Cable has sufficient bandwidth to transfer 1080p video signals between 1080p rated source and sink (display) devices.</i> <i>Audio Return Channel - Normally, your HDMI® cable carries audio information along with the video from a source device (e.g. blu-ray player) to the sink device (display/television).</i>	\$	\$
1	Extron Backlit Button Labels for the MLC series Button Pads Extron Electronics 33-1344-01 <i>For use with Extron products that feature 0.59 inch backlit buttons</i> • Includes text and icons for commonly used devices and functions, such as PCs, laptops, DVDs, and room lighting • Enables quick and easy operation of the switcher or control panel	\$	\$

Video

1	Epson Powerlite 935W WXGA 3LCD Projector Epson Powerlite 935W <i>The PowerLite 935W brings larger-than-life, widescreen images and astonishing brightness with 3700 lumens of color brightness and 3700 lumens of white brightness1 to your classroom, suitable for almost any lighting condition. The 935W is equipped with a microphone input and premium 16 W speaker, so all your students will hear the lesson, without costly speakers or voice strain on the part of the presenter. Connect your projector to your laptop or Blu-ray® player via HDMI, to enhance your presentation. Or, display and control content from your iOS or Android™ mobile device with the Epson iProjection™ App2.</i>	\$	\$
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ROOM A1420		UNIT PRICE	EXT PRICE
1	Chief Speed-Connect Above Tile Suspended Ceiling Kit Chief Mfg. CMS440 •WireVice Cable Suspension System for quick and easy tie-off •TwisTile Ceiling Tile Cutter easily pierces a circular hole in the ceiling tile for extension column •Flexible solution provides infinite column placement within a 2' x 2' or 2' x 4' ceiling tile •Single and dual electrical outlet cutouts •All-Points Security System provides exclusive locking hardware at column connection point to protect against theft •Includes (4) 25' flexible cables, (4) wood eyebolts, (4) concrete anchors and a chrome trim ring •Fits 24" (600 mm) wide ceiling tile grids •1.5" NPT compatible	\$	\$
1	Chief Mfg. 6" FIXED PIPE WHITE Chief Mfg. CMS006 CMS-006-W	\$	\$
1	Chief Mfg. RPA Elite Projector Security Mount (Lock A) White Chief Mfg. RPMA1 RPMA1-W Features •Microzone Adjustments make projector registration fast and precise (including flush mount installations) •Centris Technology enables effortless fingertip positioning and self-adjusts to support different projector weights •Quick connect/disconnect for convenient lamp and filter access on most projectors •Maintains registration when disconnected and doesn't affect preset adjustments •Cable management without additional accessories •Complete security with a universal mounting interface with secured mounting points for high-risk environments	\$	\$
Labor			
1	installation Labor Install of Extron IN-1606, TX/RX HDMI to Epson projector, new amp and transformers for existing speakers.	\$	\$
1	Extron Programming Programming Extron CUSTOM PROGRAMING of IN-1606, which includes the newly updated config. file, new IP address, subnet, and default gateway.	\$	\$
ROOM A1420 Total		Labor \$	Equipment \$

ROOM M4660

UNIT PRICE EXT PRICE

Control

1	Extron IN1606 Six Input HDCP-Compliant Scaling Presentation Switcher Extron Electronics 60-1081-01 <i>The Extron IN1606 is a six input, HDCP-compliant video scaler that includes four HDMI inputs, two universal analog video inputs, and two simultaneous HDMI outputs. The IN1606 accepts a wide variety of video formats including HDMI, HDTV, RGB, and standard definition video. It features an advanced video scaling engine with 1080i deinterlacing and Deep Color processing with support for up to 1920x1200 and 2K output resolutions. Enhanced audio features include six stereo inputs, two variable stereo outputs, two mic/line inputs with ducking, plus HDMI audio embedding and de-embedding. Designed for professional AV integration, the IN1606 offers flexible control options including Ethernet, RS-232,</i>	\$	\$
1	DTP HDMI 230 TX Transmitter Extron Electronics 60-1271-12 <i>60-1271-12 • Transmits HDMI plus control and analog audio up to 230 feet (70 meters) over a single CATx cable</i> • Supports computer-video to 1920x1200, including HDTV 1080p/60 Deep Color and 2K • Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable • Extron XTP DTP 24 Shielded Twisted Pair cable provides added protection from outside interference and ensures high quality signal transmission • Accepts additional analog stereo audio signals • Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC	\$	\$
1	Extron DTP HDMI 230 RX Receiver Extron Electronics 60-1271-13 <i>60-1271-13. Receives HDMI plus control and analog audio up to 230 feet (70 meters) over a single CATx cable</i> • Supports computer-video to 1920x1200, including HDTV 1080p/60 Deep Color and 2K • Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable • Extron XTP DTP 24 Shielded Twisted Pair cable provides added protection from outside interference and ensures high quality signal transmission • Accepts additional analog stereo audio signals • Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC	\$	\$

ROOM M4660

UNIT PRICE EXT PRICE

2	3 ft 24AWG CL2 High Speed HDMI® Cable w/ Net Jacket - Black Monoprice 3991 •1080p Resolution - <i>The High Speed HDMI Cable has sufficient bandwidth to transfer 1080p video signals between 1080p rated source and sink (display) devices.</i> •Audio Return Channel - <i>Normally, your HDMI cable carries audio information along with the video from a source device (e.g. blu-ray player) to the sink device (display/television). Often times this goes through an AV receiver to drive a home theater audio system. The Audio Return Channel is primarily used to send the audio signal generated by the television when its internal tuner is used, back to the AV receiver, so that you can use your home theater audio system when watching television signals.</i>	\$	\$
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1	6ft 24AWG CL2 High Speed HDMI® Cable w/ Net Jacket - Black Monoprice ID# 3661 <i>The CL2 rating on this cable indicates that its outer jacket has been designed to burn more slowly, thereby making it safe for use inside or through the walls of residential classed buildings. The CL2 rating ensures that your cable installation complies with fire safety codes and insurance requirements. 1080p Resolution - The High Speed HDMI® Cable has sufficient bandwidth to transfer 1080p video signals between 1080p rated source and sink (display) devices. Audio Return Channel - Normally, your HDMI® cable carries audio information along with the video from a source device (e.g. blu-ray player) to the sink device (display/television).</i>	\$	\$
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1	Extron Backlit Button Labels for the MLC series Button Pads Extron Electronics 33-1344-01 <i>For use with Extron products that feature 0.59 inch backlit buttons</i> • Includes text and icons for commonly used devices and functions, such as PCs, laptops, DVDs, and room lighting • Enables quick and easy operation of the switcher or control panel	\$	\$
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Rack Mount Equipment

1	Middle Atlantic Essex Blank Panels, 3 RU, 2 pack Middle Atlantic FBPanel-3U-2PK <i>Essex Blank Panels are ideal for achieving effective thermal management of the rack system. Designed to fit perfectly in any Essex rack, these panels help ensure that installed AV systems run reliably and are finished with a professional touch.</i>	\$	\$
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Video

1	Da-Lite Advantage Electrol 34512LSR 50" x 80" 16:10 wLVC and RS232 Control Da-Lite 34512LSR• <i>Standard Silent Drive System to keep your screen whisper quiet (sizes up to 10'x10')</i> •Standard Low Voltage Control (LVC) to keep your screen operation flexible •Simple Installation with a new installation kit and user-friendly packaging to keep you on schedule •Support includes a comprehensive five-year warranty to keep you confident in your purchase •UL Plenum rated case •White powder-coated case for a clean aesthetic •Available with SCB-100 and SCB-200 (RS-232 serial control board) or Video Projector Interface (screen trigger) built into the case •Decora-style, three-button wall switch •Standard black backing retains projected brightness •Seamless surfaces in all models	\$	\$
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1	Epson Powerlite 935W WXGA 3LCD Projector Epson Powerlite 935W <i>The PowerLite 935W brings larger-than-life, widescreen images and astonishing brightness with 3700 lumens of color brightness and 3700 lumens of white brightness¹ to your classroom, suitable for almost any lighting condition. The 935W is equipped with a microphone input and premium 16 W speaker, so all your students will hear the lesson, without costly speakers or voice strain on the part of the presenter. Connect your projector to your laptop or Blu-ray® player via HDMI, to enhance your presentation. Or, display and control content from your iOS or Android™ mobile device with the Epson iProjection™ App².</i>	\$	\$
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ROOM M4660	UNIT PRICE	EXT PRICE
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Labor

1	installation Labor <i>Removal of screen and install new, run wire for screen control, install Extron IN-1606, TX/RX HDMI to Epson projector.</i>	\$	\$
1	Extron Programming Programming <i>Extron CUSTOM PROGRAMING of IN-1606, which includes the newly updated config. file, new IP address, subnet, and default gateway.</i>	\$	\$

ROOM M4660 Total	Labor \$	Equipment \$
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ROOM M1900	UNIT PRICE	EXT PRICE
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Control

1	Extron IN1606 Six Input HDCP-Compliant Scaling Presentation Switcher Extron Electronics 60-1081-01 <i>The Extron IN1606 is a six input, HDCP-compliant video scaler that includes four HDMI inputs, two universal analog video inputs, and two simultaneous HDMI outputs. The IN1606 accepts a wide variety of video formats including HDMI, HDTV, RGB, and standard definition video. It features an advanced video scaling engine with 1080i deinterlacing and Deep Color processing with support for up to 1920x1200 and 2K output resolutions. Enhanced audio features include six stereo inputs, two variable stereo outputs, two mic/line inputs with ducking, plus HDMI audio embedding and de-embedding. Designed for professional AV integration, the IN1606 offers flexible control options including Ethernet, RS-232,</i>	\$	\$
1	DTP HDMI 230 TX Transmitter Extron Electronics 60-1271-12 <i>60-1271-12 • Transmits HDMI plus control and analog audio up to 230 feet (70 meters) over a single CATx cable</i> • Supports computer-video to 1920x1200, including HDTV 1080p/60 Deep Color and 2K • Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable • Extron XTP DTP 24 Shielded Twisted Pair cable provides added protection from outside interference and ensures high quality signal transmission • Accepts additional analog stereo audio signals • Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC 1 Extron Electronics 60-1271-13 <i>60-1271-13. Receives HDMI plus control and analog audio up to 230 feet (70 meters) over a single CATx cable</i> • Supports computer-video to 1920x1200, including HDTV 1080p/60 Deep Color and 2K • Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable • Extron XTP DTP 24 Shielded Twisted Pair cable provides added protection from outside interference and ensures high quality signal transmission • Accepts additional analog stereo audio signals • Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC	\$	\$

1	3ft 24AWG CL2 High Speed HDMI® Cable w/ Net Jacket - Black Monoprice 3991 <i>•1080p Resolution - The High Speed HDMI Cable has sufficient bandwidth to transfer 1080p video signals between 1080p rated source and sink (display) devices.</i> <i>•Audio Return Channel - Normally, your HDMI cable carries audio information along with the video from a source device (e.g. blu-ray player) to the sink device (display/television). Often times this goes through an AV receiver to drive a home theater audio system. The Audio Return Channel is primarily used to send the audio signal generated by the television when its internal tuner is used, back to the AV receiver, so that you can use your home theater audio system when watching television signals.</i>	\$	\$
1	3ft 28AWG High Speed HDMI® to Adapter DVI Cable Monoprice ID# 2661 <i>This HDMI® to DVI Adapter Cable is capable of video performance equivalent to a High Speed HDMI® Cable.</i> <i>Ferrite Cores are small magnetic blocks wrapped around the end of a cable. They are used to suppress EMI/RFI electronic noise on the cable by absorbing the unwanted high frequencies and dissipating them as very low-level heat. This is the simplest and cheapest form of electronic noise reduction and is most effective on small gauge cabling, which is inherently more susceptible to electronic noise interference than thicker cables.</i> <i>• 1080p Resolution - The High Speed HDMI® Cable has sufficient bandwidth to transfer 1080p video signals between 1080p rated source and sink (display) devices</i>	\$	\$
1	Extron Backlit Button Labels for the MLC series Button Pads Extron Electronics 33-1344-01 <i>For use with Extron products that feature 0.59 inch backlit buttons</i> <i>• Includes text and icons for commonly used devices and functions, such as PCs, laptops, DVDs, and room lighting</i> <i>• Enables quick and easy operation of the switcher or control panel</i>	\$	\$
Labor			
1	installation Labor <i>Install of Extron IN-1606, TX/RX HDMI to Epson projector, new amp and transformers for existing speakers.</i>	\$	\$
1	Extron Programming Programming <i>Extron CUSTOM PROGRAMING of IN-1606, which includes the newly updated config. file, new IP address, subnet, and default gateway.</i>	\$	\$
Room M1900	Area Total	Labor \$	Equipment \$

ROOM 1800

UNIT PRICE EXT PRICE

Control

\$

\$

1 Extron IN1606 Six Input HDCP-Compliant Scaling

Presentation Switcher

Extron Electronics 60-1081-01

The Extron IN1606 is a six input, HDCP-compliant video scaler that includes four HDMI inputs, two universal analog video inputs, and two simultaneous HDMI outputs. The IN1606 accepts a wide variety of video formats including HDMI, HDTV, RGB, and standard definition video. It features an advanced video scaling engine with 1080i deinterlacing and Deep Color processing with support for up to 1920x1200 and 2K output resolutions. Enhanced audio features include six stereo inputs, two variable stereo outputs, two mic/line inputs with ducking, plus HDMI audio embedding and de-embedding. Designed for professional AV integration, the IN1606 offers flexible control options including Ethernet, RS-232

1 DTP HDMI 230 TX Transmitter

\$

\$

Extron Electronics 60-1271-12

60-1271-12 • Transmits HDMI plus control and analog audio up to 230 feet (70 meters) over a single CATx cable

- Supports computer-video to 1920x1200, including HDTV 1080p/60 Deep Color and 2K*
- Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable*
- Extron XTP DTP 24 Shielded Twisted Pair cable provides added protection from outside interference and ensures high quality signal transmission*
- Accepts additional analog stereo audio signals*
- Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC*

1 Extron DTP HDMI 230 RX Receiver

\$

\$

Extron Electronics 60-1271-13

60-1271-13. Receives HDMI plus control and analog audio up to 230 feet (70 meters) over a single CATx cable

- Supports computer-video to 1920x1200, including HDTV 1080p/60 Deep Color and 2K*
- Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable*
- Extron XTP DTP 24 Shielded Twisted Pair cable provides added protection from outside interference and ensures high quality signal transmission*
- Accepts additional analog stereo audio signals*
- Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC*

1 6ft 24AWG CL2 High Speed HDMI® Cable w/ Net Jacket - Black

\$

\$

Monoprice ID# 3661

The CL2 rating on this cable indicates that its outer jacket has been designed to burn more slowly, thereby making it safe for use inside or through the walls of residential classed buildings. The CL2 rating ensures that your cable installation complies with fire safety codes and insurance requirements. 1080p Resolution - The High Speed HDMI® Cable has sufficient bandwidth to transfer 1080p video signals between 1080p rated source and sink (display) devices. Audio Return Channel - Normally, your HDMI® cable carries audio information along with the video from a source device (e.g. blu-ray player) to the sink device (display/television).

ROOM 1800**UNIT PRICE EXT PRICE**

2	3ft 24AWG CL2 High Speed HDMI® Cable w/ Net Jacket - Black Monoprice 3991 •1080p Resolution - The High Speed HDMI Cable has sufficient bandwidth to transfer 1080p video signals between 1080p rated source and sink (display) devices. •Audio Return Channel - Normally, your HDMI cable carries audio information along with the video from a source device (e.g. blu-ray player) to the sink device (display/television). Often times this goes through an AV receiver to drive a home theater audio system. The Audio Return Channel is primarily used to send the audio signal generated by the television when its internal tuner is used, back to the AV receiver, so that you can use your home theater audio system when watching television signals.	\$	\$
1	Extron Backlit Button Labels for the MLC series Button Pads Extron Electronics 33-1344-01 For use with Extron products that feature 0.59 inch backlit buttons • Includes text and icons for commonly used devices and functions, such as PCs, laptops, DVDs, and room lighting • Enables quick and easy operation of the switcher or control panel	\$	\$

Video

1	Epson Powerlite 935W WXGA 3LCD Projector Epson Powerlite 935W The PowerLite 935W brings larger-than-life, widescreen images and astonishing brightness with 3700 lumens of color brightness and 3700 lumens of white brightness ¹ to your classroom, suitable for almost any lighting condition. The 935W is equipped with a microphone input and premium 16 W speaker, so all your students will hear the lesson, without costly speakers or voice strain on the part of the presenter. Connect your projector to your laptop or Blu-ray® player via HDMI, to enhance your presentation. Or, display and control content from your iOS or Android™ mobile device with the Epson iProjection™ App ² .	\$	\$
1	Da-Lite Contour Electrol 70192LSR 72.5" x 116" 16:10 with LVS and RS232 Da-Lite 70192LSR 70192LSR. •Standard Silent Drive System to keep your screen whisper quiet (sizes up to 10'x10') •Standard Low Voltage Control (LVC) to keep your screen operation flexible •Simple Installation with a new installation kit and user-friendly packaging to keep you on schedule •Support includes a comprehensive five-year warranty to keep you confident in your purchase •Available with SCB-100 and SCB-200 (RS-232 serial control board) or Video Projector Interface (screen trigger) built into the case •Decora-style, three-button wall switch •Standard black backing retains projected brightness •Seamless surfaces •Standard white powder-coated aluminum finish;	\$	\$

ROOM 1800		UNIT PRICE	EXT PRICE
Labor			
1	installation Labor <i>Removal of screen and install new, run wire for screen control, install Extron IN-1606, TX/RX HDMI to Epson projector.</i>	\$	\$
1	Extron Programming Programming <i>Extron CUSTOM PROGRAMING of IN-1606, which includes the newly updated config. file, new IP address, subnet, and default gateway.</i>	\$	\$
ROOM M1800 Total		Labor \$	Equipment \$

ROOM A1820		UNIT PRICE	EXT PRICE
Audio			
1	Extron MPA 401 Mono 70/100 V Amplifier - 40 Watts Extron Electronics 60-845-01 <i>60-845-01</i> • 40 watts rms output power @ 70 volts or 100 volts • ENERGY STAR® qualified amplifier • Extron Patented CDRS™ - Class D Ripple Suppression • Front panel bass, treble, and input level controls • UL 2043 plenum rated • Balanced and unbalanced buffered audio inputs	\$	\$
2	Extron 70 Volt Step Up Transformer for FF120 Extron Speakers Extron Electronics 881147 (special order) <i>Existing PV AMP with 4/8 ohm. Add this transformer to each FF120 speaker to change to 70V to use with MPA 401 70 volt amplifier.</i>	\$	\$

Control

1	Extron IN1606 Six Input HDCP-Compliant Scaling Presentation Switcher Extron Electronics 60-1081-01 <i>The Extron IN1606 is a six input, HDCP-compliant video scaler that includes four HDMI inputs, two universal analog video inputs, and two simultaneous HDMI outputs. The IN1606 accepts a wide variety of video formats including HDMI, HDTV, RGB, and standard definition video. It features an advanced video scaling engine with 1080i deinterlacing and Deep Color processing with support for up to 1920x1200 and 2K output resolutions. Enhanced audio features include six stereo inputs, two variable stereo outputs, two mic/line inputs with ducking, plus HDMI audio embedding and de-embedding. Designed for professional AV integration, the IN1606 offers flexible control options including Ethernet, RS-232,</i>	\$	\$
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ROOM A1820

UNIT PRICE

EXT PRICE

1	DTP HDMI 230 TX Transmitter Extron Electronics 60-1271-12 60-1271-12 • Transmits HDMI plus control and analog audio up to 230 feet (70 meters) over a single CATx cable • Supports computer-video to 1920x1200, including HDTV 1080p/60 Deep Color and 2K • Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable • Extron XTP DTP 24 Shielded Twisted Pair cable provides added protection from outside interference and ensures high quality signal transmission • Accepts additional analog stereo audio signals • Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC	\$	\$
1	Extron DTP HDMI 230 RX Receiver Extron Electronics 60-1271-13 60-1271-13. Receives HDMI plus control and analog audio up to 230 feet (70 meters) over a single CATx cable • Supports computer-video to 1920x1200, including HDTV 1080p/60 Deep Color and 2K • Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable • Extron XTP DTP 24 Shielded Twisted Pair cable provides added protection from outside interference and ensures high quality signal transmission • Accepts additional analog stereo audio signals • Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC	\$	\$
2	3ft 24AWG CL2 High Speed HDMI® Cable w/ Net Jacket - Black Monoprice 3991 •1080p Resolution - The High Speed HDMI Cable has sufficient bandwidth to transfer 1080p video signals between 1080p rated source and sink (display) devices. •Audio Return Channel - Normally, your HDMI cable carries audio information along with the video from a source device (e.g. blu-ray player) to the sink device (display/television). Often times this goes through an AV receiver to drive a home theater audio system. The Audio Return Channel is primarily used to send the audio signal generated by the television when its internal tuner is used, back to the AV receiver, so that you can use your home theater audio system when watching television signals.	\$	\$

ROOM A1820		UNIT PRICE	EXT PRICE
1	6ft 24AWG CL2 High Speed HDMI® Cable w/ Net Jacket - Black Monoprice ID# 3661 <i>The CL2 rating on this cable indicates that its outer jacket has been designed to burn more slowly, thereby making it safe for use inside or through the walls of residential classed buildings. The CL2 rating ensures that your cable installation complies with fire safety codes and insurance requirements. 1080p Resolution - The High Speed HDMI® Cable has sufficient bandwidth to transfer 1080p video signals between 1080p rated source and sink (display) devices. Audio Return Channel - Normally, your HDMI® cable carries audio information along with the video from a source device (e.g. blu-ray player) to the sink device (display/television).</i>	\$	\$
1	Extron Backlit Button Labels for the MLC series Button Pads Extron Electronics 33-1344-01 <i>For use with Extron products that feature 0.59 inch backlit buttons</i> • Includes text and icons for commonly used devices and functions, such as PCs, laptops, DVDs, and room lighting • Enables quick and easy operation of the switcher or control panel	\$	\$
ROOM A1820 Total		Equipment \$	

ROOM A2120		UNIT PRICE	EXT PRICE
Control			
1	Extron IN1606 Six Input HDCP-Compliant Scaling Presentation Switcher Extron Electronics 60-1081-01 <i>The Extron IN1606 is a six input, HDCP-compliant video scaler that includes four HDMI inputs, two universal analog video inputs, and two simultaneous HDMI outputs. The IN1606 accepts a wide variety of video formats including HDMI, HDTV, RGB, and standard definition video. It features an advanced video scaling engine with 1080i deinterlacing and Deep Color processing with support for up to 1920x1200 and 2K output resolutions. Enhanced audio features include six stereo inputs, two variable stereo outputs, two mic/line inputs with ducking, plus HDMI audio embedding and de-embedding. Designed for professional AV integration, the IN1606 offers flexible control options including Ethernet, RS-232,</i>	\$	\$
1	DTP HDMI 230 TX Transmitter Extron Electronics 60-1271-12 60-1271-12 • Transmits HDMI plus control and analog audio up to 230 feet (70 meters) over a single CATx cable • Supports computer-video to 1920x1200, including HDTV 1080p/60 Deep Color and 2K • Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable • Extron XTP DTP 24 Shielded Twisted Pair cable provides added protection from outside interference and ensures high quality signal transmission • Accepts additional analog stereo audio signals • Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC	\$	\$

ROOM A2120**UNIT PRICE****EXT PRICE**

1	Extron DTP HDMI 230 RX Receiver	\$	\$
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Extron Electronics 60-1271-13

60-1271-13. Receives HDMI plus control and analog audio up to 230 feet (70 meters) over a single CATx cable

- *Supports computer-video to 1920x1200, including HDTV 1080p/60 Deep Color and 2K*
- *Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable*
- *Extron XTP DTP 24 Shielded Twisted Pair cable provides added protection from outside interference and ensures high quality signal transmission*
- *Accepts additional analog stereo audio signals*
- *Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC*

2	3ft 24AWG CL2 High Speed HDMI® Cable w/ Net Jacket - Black	\$	\$
	Monoprice 3991		

•*1080p Resolution - The High Speed HDMI Cable has sufficient bandwidth to transfer 1080p video signals between 1080p rated source and sink (display) devices.*

•*Audio Return Channel - Normally, your HDMI cable carries audio information along with the video from a source device (e.g. blu-ray player) to the sink device (display/television). Often times this goes through an AV receiver to drive a home theater audio system. The Audio Return Channel is primarily used to send the audio signal generated by the television when its internal tuner is used, back to the AV receiver, so that you can use your home theater audio system when watching television signals.*

1	6ft 24AWG CL2 High Speed HDMI® Cable w/ Net Jacket - Black	\$	\$
	Monoprice ID# 3661		

The CL2 rating on this cable indicates that its outer jacket has been designed to burn more slowly, thereby making it safe for use inside or through the walls of residential classed buildings. The CL2 rating ensures that your cable installation complies with fire safety codes and insurance requirements.

1080p Resolution - The High Speed HDMI® Cable has sufficient bandwidth to transfer 1080p video signals between 1080p rated source and sink (display) devices.
Audio Return Channel - Normally, your HDMI® cable carries audio information along with the video from a source device (e.g. blu-ray player) to the sink device (display/television).

1	Extron Backlit Button Labels for the MLC series Button Pads	\$	\$
	Extron Electronics 33-1344-01		

For use with Extron products that feature 0.59 inch backlit buttons

- *Includes text and icons for commonly used devices and functions, such as PCs, laptops, DVDs, and room lighting*
- *Enables quick and easy operation of the switcher or control panel*

Rack Mount Equipment

1	Middle Atlantic Essex Blank Panels, 3 RU, 2 pack	\$	\$
	Middle Atlantic FB-panel-3U-2PK		

Essex Blank Panels are ideal for achieving effective thermal management of the rack system. Designed to fit perfectly in any Essex rack, these panels help ensure that installed AV systems run reliably and are finished with a professional touch.

ROOM A2120 Total

Equipment \$

Control

1	Extron IN1606 Six Input HDCP-Compliant Scaling Presentation Switcher \$ \$ Extron Electronics 60-1081-01 <i>The Extron IN1606 is a six input, HDCP-compliant video scaler that includes four HDMI inputs, two universal analog video inputs, and two simultaneous HDMI outputs. The IN1606 accepts a wide variety of video formats including HDMI, HDTV, RGB, and standard definition video. It features an advanced video scaling engine with 1080i deinterlacing and Deep Color processing with support for up to 1920x1200 and 2K output resolutions. Enhanced audio features include six stereo inputs, two variable stereo outputs, two mic/line inputs with ducking, plus HDMI audio embedding and de-embedding. Designed for professional AV integration, the IN1606 offers flexible control options including Ethernet, RS-232,</i>
1	DTP HDMI 230 TX Transmitter \$ \$ Extron Electronics 60-1271-12 <i>60-1271-12 • Transmits HDMI plus control and analog audio up to 230 feet (70 meters) over a single CATx cable</i> • Supports computer-video to 1920x1200, including HDTV 1080p/60 Deep Color and 2K • Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable • Extron XTP DTP 24 Shielded Twisted Pair cable provides added protection from outside interference and ensures high quality signal transmission • Accepts additional analog stereo audio signals • Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC
1	Extron DTP HDMI 230 RX Receiver \$ \$ Extron Electronics 60-1271-13 <i>60-1271-13. Receives HDMI plus control and analog audio up to 230 feet (70 meters) over a single CATx cable</i> • Supports computer-video to 1920x1200, including HDTV 1080p/60 Deep Color and 2K • Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable • Extron XTP DTP 24 Shielded Twisted Pair cable provides added protection from outside interference and ensures high quality signal transmission • Accepts additional analog stereo audio signals • Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC
2	3ft 24AWG CL2 High Speed HDMI® Cable w/ Net Jacket - Black \$ \$ Monoprice 3991 • <i>1080p Resolution - The High Speed HDMI Cable has sufficient bandwidth to transfer 1080p video signals between 1080p rated source and sink (display) devices.</i> • <i>Audio Return Channel - Normally, your HDMI cable carries audio information along with the video from a source device (e.g. blu-ray player) to the sink device (display/television). Often times this goes through an AV receiver to drive a home theater audio system. The Audio Return Channel is primarily used to send the audio signal generated by the television when its internal tuner is used, back to the AV receiver, so that you can use your home theater audio system when watching television signals.</i>

Room A2160**UNIT PRICE EXT PRICE**

- | | | | |
|---|--|----|----|
| 1 | 6ft 24AWG CL2 High Speed HDMI® Cable w/ Net Jacket - Black
Monoprice ID# 3661
<i>The CL2 rating on this cable indicates that its outer jacket has been designed to burn more slowly, thereby making it safe for use inside or through the walls of residential classed buildings. The CL2 rating ensures that your cable installation complies with fire safety codes and insurance requirements. 1080p Resolution - The High Speed HDMI® Cable has sufficient bandwidth to transfer 1080p video signals between 1080p rated source and sink (display) devices. Audio Return Channel - Normally, your HDMI® cable carries audio information along with the video from a source device (e.g. blu-ray player) to the sink device (display/television).</i> | \$ | \$ |
| | | | |
| 1 | Extron Backlit Button Labels for the MLC series Button Pads
Extron Electronics 33-1344-01
<i>For use with Extron products that feature 0.59 inch backlit buttons</i>
<ul style="list-style-type: none"> • Includes text and icons for commonly used devices and functions, such as PCs, laptops, DVDs, and room lighting • Enables quick and easy operation of the switcher or control panel | \$ | \$ |

ROOM A2160	TOTAL	EQUIPMENT	\$
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RETURN ALL PAGES WITH UNIT and EXTENDED PRICING and the following PRICING SUMMARY

PRICING SUMMARY

Total (ALL CLASSROOMS)

Audio Systems	\$
Control Systems	\$
Rack Mount Equipment System	\$
Video Systems	\$
Labor System Total	\$
GRAND TOTAL	\$ _____

INCLUDE ALL WARRANTY INFORMATION FOR PARTS AND LABOR.

ALL EQUIPMENT AND INSTALLATION MUST BE COMPLETED, INVOICED and PAID NO LATER THAN JUNE 30, 2015. INSTALLATION WILL OCCUR DURING SEMESTER BREAK MAY 11- 26, 2015, or THE FRIDAYS BEFORE AND AFTER MAY 11-26th, IN ORDER TO COMPLETE THIS PROJECT BY JUNE 30, 2015.

WORK MUST BE COMPLETED, INVOICED, and PAID NO LATER THAN JUNE 30, 2015.

HOW MANY DAYS AFTER RECEIPT OF ORDER WILL ITEM BE DELIVERED and INSTALLED; NO LATER THAN: DAYS _____

ATTACHED EXHIBITS (ROOM DIAGRAMS) ARE MADE A PART OF THIS DOCUMENTED QUOTE:

1. ACC ROOM A1420
2. ACC ROOM A2130
3. ACC ROOM A2210

4. ACC ROOM M1800
5. ACC ROOM M1850
6. ACC ROOM M1900
7. ACC ROOM M4080
8. ACC ROOM M4150
9. ACC ROOM M4660
10. ACC ROOM M4780
11. Product Details

ACC reserves the right to accept or reject quotes on each item separately or as a whole, to reject any or all quotes, to waive informalities or irregularities, and to contract in the best interest of the State and ACC.

ACC may reject any bid that is unbalanced if it is in the best interest of the State and ACC to do so. A bid will be considered unbalanced when, in the opinion of the Purchasing Manager, the bid allocates a disproportionate share of costs to the price of one or more bid items and reduces the costs to the price of another bid item or items, and if there is a reasonable possibility that the bid will not result in the lowest overall cost to ACC.

Evaluation:

ACC will be the sole judge in determining the acceptability of a quote and in determining the most beneficial quote(s) for the State and ACC. Quote evaluation will consist primarily of comparing unit price bid for the listed items. Evaluation terms may also take into account payment terms, projected delivery dates, and any other pertinent factors. For administrative questions contact Stephen Rosenthal 303 797 5753 or email to Stephen.rosenthal@arapahoe.edu

Colorado Vendor Self Service (VSS) and Registration

This solicitation is published using the Colorado Vendor Self Service (ColoradoVSS) system. Vendors must be registered on ColoradoVSS in order to download solicitation documents and information (including any amendments or modifications) and to be considered responsive at the time of submission of the response. ColoradoVSS and its registration information may be linked through the State Purchasing Office link at www.Colorado.gov/VSS. All respondents will be responsible to check the bids system for awarding of quote. No other notifications will be given.

General Conditions

Quantities - ACC reserves the right to adjust quantities stated in this solicitation. Available funding versus prices quoted may affect actual quantities ordered. ACC may choose to increase or decrease quantities stated in the documents depending on the circumstance. ACC is not obligated to place any order for a given amount subsequent to the award of this solicitation. ACC may use any stated estimated quantities in the award evaluation process. Estimated quantities do not contemplate or include possible additional quantities that may be ordered by other entities utilizing this contract. In no event shall ACC be liable for payments in excess of the amount due for quantities of goods or services actually ordered. ACC reserves the right to purchase additional goods and services at the same quote prices or lower within a reasonable period of time following award.

MWBE - It is the State's goal to achieve maximum participation of minorities and women owned businesses in the procurement process. Accordingly, minority and women owned business enterprises are to be utilized whenever possible.

SDVOSB - In accordance with House Bill 14-1224, CCCS reports on contracts with Service Disabled Veteran Owned Small Businesses (SDVOSB). Bidders who qualify as SDVOSB are requested to submit proof of certification with their response.

Environmentally Preferable Products - In accordance with Procurement Code, CRS 24-103-207.5 titled -Purchasing Preference for Environmentally Preferable Products; bidders responding to this solicitation may seek to qualify for the preference and governmental bodies conducting this solicitation shall award a contract to a bidder who offers environmentally preferable products subject to the conditions in the Code and Procurement Rules.

Quotes must be in accordance with specifications set forth by the State of Colorado's Terms and Conditions and subject to conditions herein and/or attached. ACC will use the State of Colorado Purchase Order Terms & Conditions and the special provisions with any purchase or lease.

FOB: Destination

**RESPONSE SHEET
DOCUMENTED QUOTE CCCS DQ XXXX**

****THIS SHEET MUST BE RETURNED**

Quotes will be accepted via e-mail at stephen.rosenthal@arapahoe.edu (preferred) or fax at (303797 3942)
In the case of mathematical error in extensions, the unit price will prevail.

THE FOLLOWING MUST BE COMPLETED:

Vendor Name			
Vendor Address			
Vendor Phone / Fax			
E-Mail Address			
Printed Name, Title			
Signature			
Assured Delivery Date			
Payment Terms	FOB Destination / Net 45		
Using the Federal Government definition, does your company qualify as:			
A Small Business	Yes___ No___	A Woman Owned Business	Yes___ No___
A Minority Business	Yes___ No___	If Yes, State Ethnicity	
A Service Disabled Veteran Owned Small Business (SDVOSB) (If yes, provide certification)			Yes___ No___
Federal ID Number			
Are you a member of the ColoradoVSS System			Yes___ No___

Attachment A

Purchase Order Terms and Conditions

1. Offer/Acceptance. If this purchase order (“PO”) refers to vendor’s bid or proposal, this PO is an ACCEPTANCE of vendor’s OFFER TO SELL in accordance with the terms and conditions of the “solicitation” identified in vendor’s bid or proposal. The solicitation includes an RFP, IFB, or any other form of order by buyer. If a bid or proposal is not referenced, this PO is an OFFER TO BUY, subject to vendor’s acceptance, demonstrated by vendor’s performance or written acceptance of this PO. Any COUNTER-OFFER TO SELL automatically CANCELS this PO, unless a change order is issued by buyer accepting a counter-offer. This PO shall supersede and control over any vendor form(s) or part(s) thereof included in or attached to any bid, proposal, offer, acknowledgment, or otherwise, in the event of inconsistencies or contradictions, regardless of any statement to the contrary in such form(s) or parts thereof. **2. Safety Information.** All chemicals, equipment and materials proposed and/or used in the performance of this PO shall conform to the requirements of the Occupational Safety and Health Act of 1970. Vendor shall furnish all Material Safety Data Sheets (MSDS) for any regulated chemicals, equipment or hazardous materials at the time of delivery.

3. Changes. Vendor shall furnish products and/or services strictly in accordance with the specifications and price set forth for each item. This PO shall not be modified, superseded or otherwise altered, except in writing signed by purchasing agent and accepted by vendor. Each shipment received or service performed shall comply with the terms of this PO, notwithstanding invoice terms or acts of vendor to the contrary, unless this PO has been modified, superseded or otherwise altered in accordance with this section.

4. Delivery. Unless otherwise specified in the solicitation or this PO, delivery shall be FOB destination. Buyer is relying on the promised delivery date, installation, and/or service performance set forth in vendor’s bid or proposal as material and basic to buyer’s acceptance. If vendor fails to deliver or perform as and when promised, buyer, in its sole discretion, may cancel its order, or any part thereof, without prejudice to its other rights, return all or part of any shipment so made, and charge vendor with any loss or expense sustained as a result of such failure to deliver or perform as promised. Time is of the essence.

5. Intellectual Property. Any software, research, reports, studies, data, photographs, negatives or other documents, drawings or materials (collectively “materials”) delivered by vendor in performance of its obligations under this PO shall be the exclusive property of buyer. Ownership rights shall include, but not be limited to, the right to copy, publish, display, transfer, prepare derivative works, or otherwise use the materials. Vendor shall comply with all applicable Cyber Security Policies of the State of Colorado (the “State”), or buyer, as applicable, and all confidentiality and non-disclosure agreements, security controls, and reporting requirements.

6. Quality. Buyer shall be the sole judge in determining “equals” with regard to quality, price and performance. All products delivered shall be newly manufactured and the current model, unless otherwise specified.

7. Warranties. All provisions and remedies of the Colorado Uniform Commercial Code, CRS, Title 4 (“CUCC”), relating to implied and/or express warranties are incorporated herein, in addition to any warranties contained in this PO or the specifications.

8. Inspection and Acceptance. Final acceptance is contingent upon completion of all applicable inspection procedures. If products or services fail to meet any inspection requirements, buyer may exercise all of its rights, including those provided in the CUCC. Buyer shall have the right to inspect services provided under this PO at all reasonable times and places. “Services” as used in this section includes services performed or tangible material produced or delivered in the performance of services. If any of the services do not conform to PO requirements, buyer may require vendor to perform the services again in conformity with PO requirements, without additional payment. When defects in the quality or quantity of service cannot be corrected by re-performance, buyer may (a) require vendor to take necessary action to ensure that future performance conforms to PO requirements and (b) equitably reduce the payment due vendor to reflect the reduced value of the services performed. These remedies do not limit the remedies otherwise available in this PO, at law, or in equity.

9. Cash Discount. The cash discount period will start from the later of the date of receipt of acceptable invoice, or from date of receipt of acceptable products/services at the specified destination by an authorized buyer representative.

10. Taxes. Buyer and the State are exempt from all federal excise taxes under Chapter 32 of the Internal Revenue Code [No. 84-730123K] and from all State and local government sales and use taxes [CRS, Title 39, Article 26, Parts I and II]. Such exemptions apply when materials are purchased for the benefit of State, except that in certain political subdivisions (e.g., City of Denver) vendor may be required to pay sales or use taxes even though the ultimate product or service is provided to buyer. Buyer shall not reimburse such sales or use taxes.

11. Payment. Buyer shall pay vendor for all amounts due within 45 days after receipt of products or services and a correct notice of amount due. Interest on the unpaid balance shall begin to accrue on the 46th day at the rate set forth in CRS §24-30-202(24) until paid in full. Interest shall not accrue if a good faith dispute exists as to buyer’s obligation to pay all or a portion of the amount due. Vendor shall invoice buyer separately for interest on delinquent amounts due, referencing the delinquent payment, number of day’s interest to be paid, and applicable interest rate.

12. Vendor Offset. [Not Applicable to Inter-governmental POs] Under CRS §24-30-202.4 (3.5), the State Controller may withhold payment under the State’s vendor offset intercept system for debts owed to State agencies for: (a) unpaid child support debts or arrearages; (b) unpaid balances of tax, accrued interest, or other charges specified in CRS §39-21-101, et seq.; (c) unpaid loans due to the Student Loan Division of the Department of Higher Education; (d) amounts required to be paid to the Unemployment Compensation Fund; and (e) other unpaid debts owing to the State as a result of final agency determination or judicial action.

13. Assignment and Successors. Vendor shall not assign rights or delegate duties under this PO, or subcontract any part of the performance required under this PO, without the express, written consent of buyer. This PO shall inure to the benefit of and be binding upon vendor and buyer and their respective successors and assigns. Assignment of accounts receivable may be made only upon written notice furnished to buyer.

14. Indemnification. If any article sold or delivered under this PO is covered by a patent, copyright, trademark, or application therefore, vendor shall indemnify and hold harmless buyer from any and all loss, liability, cost, expenses and legal fees incurred on account of any claims, legal actions or judgments arising out of manufacture, sale or use of such article in violation or infringement of rights under such patent, copyright, trademark or application. If this PO is for services, vendor shall indemnify, save, and hold harmless buyer, its employees and agents, against any and all claims, damages, liability and court awards including costs, expenses, and attorney fees and related expenses, incurred as a result of any act or omission by vendor, or its employees, agents, subcontractors or assignees, arising out of or in connection with performance of services under this PO.

15. Independent Contractor. Vendor shall perform its duties hereunder as an independent contractor and not as an employee. Neither vendor nor any agent or employee of vendor shall be deemed to be an agent or employee of buyer. Vendor and its employees and agents are not entitled to unemployment insurance or workers compensation benefits through buyer and buyer shall not pay for or otherwise provide such coverage for vendor or any of its agents or employees. Unemployment insurance benefits will be available to vendor and its employees and agents only if coverage is made available by vendor or a third party. Vendor shall pay when due all applicable employment, income, and local head taxes incurred pursuant to this PO. Vendor shall not have authorization, express or implied, to bind buyer to any agreement, liability or understanding, except as expressly set forth herein. Vendor shall **(a)** provide and keep in force workers' compensation and unemployment compensation insurance in the amounts required by law, **(b)** provide proof thereof when requested by buyer, and **(c)** be solely responsible for its acts and those of its employees and agents.

16. Communication. All communication concerning administration of this PO, prepared by vendor for buyer's use, shall be furnished solely to purchasing agent.

17. Compliance. Vendor shall strictly comply with all applicable federal and state laws, rules, and regulations in effect or hereafter established, including, without limitation, laws applicable to discrimination and unfair employment practices.

18. Insurance. Vendor shall obtain, and maintain, at all times during the term of this PO, insurance as specified in the solicitation, and provide proof of such coverage as requested by purchasing agent.

19. Termination Prior to Shipment. If vendor has not accepted this PO in writing, buyer may cancel this PO by written or oral notice to vendor prior to shipment of goods or commencement of services.

20. Termination for Cause. **(a)** If vendor refuses or fails to timely and properly perform any of its obligations under this PO with such diligence as will ensure its completion within the time specified herein, buyer may notify vendor in writing of non-performance and, if not corrected by vendor within the time specified in the notice, terminate vendor's right to proceed with the PO or such part thereof as to which there has been delay or a failure. Vendor shall continue performance of this PO to the extent not terminated and be liable for excess costs incurred by buyer in procuring similar goods or services elsewhere. Payment for completed services performed and accepted shall be at the price set forth in this PO. **(b)** Buyer may withhold amounts due to vendor as buyer deems necessary to reimburse buyer for excess costs incurred in curing, completing or procuring similar goods and services. **(c)** If after rejection, revocation, or other termination of vendor's right to proceed under the CUCC or this clause, buyer determines for any reason that vendor was not in default or the delay was excusable, the rights and obligations of buyer and vendor shall be the same as if the notice of termination had been issued pursuant to termination under §21.

21. Termination in Public Interest. Buyer is entering into this PO for the purpose of carrying out the public policy of the State, as determined by its Governor, General Assembly, and Courts. If this PO ceases to further the public policy of the State, buyer, in its sole discretion, may terminate this PO in whole or in part and such termination shall not be deemed to be a breach of buyer's obligations hereunder. This section shall not apply to a termination for vendor's breach, which shall be governed by §20. Buyer shall give written notice of termination to vendor specifying the part of the PO terminated and when termination becomes effective. Upon receipt of notice of termination, vendor shall not incur further obligations except as necessary to mitigate costs of performance. For services or specially manufactured goods, buyer shall pay **(a)** reasonable settlement expenses, **(b)** the PO price or rate for supplies and services delivered and accepted, **(c)** reasonable costs of performance on unaccepted supplies and services, and **(d)** a reasonable profit for the unaccepted work. For existing goods, buyer shall pay **(e)** reasonable settlement expenses, **(f)** the PO price for goods delivered and accepted, **(g)** reasonable costs incurred in preparation for delivery of the undelivered goods, and **(h)** a reasonable profit for the preparatory work. Buyer's termination liability under this section shall not exceed the total PO price plus a reasonable cost for settlement expenses. Vendor shall submit a termination proposal and reasonable supporting documentation, and cost and pricing data as required by CRS §24-106-101, upon request of buyer.

22. PO Approval. This PO shall not be valid unless it is executed by purchasing agent. Buyer shall not be responsible or liable for products or services delivered or performed prior to proper execution hereof.

23. Fund Availability. Financial obligations of buyer payable after the current fiscal year are contingent upon funds for that purpose being appropriated, budgeted and otherwise made available. If this PO is funded in whole or in part with federal funds, this PO is subject to and contingent upon the continuing availability of federal funds for the purposes hereof. Buyer represents that it has set aside sufficient funds to make payment for goods delivered in a single installment, in accordance with the terms of this PO.

24. Choice of Law. State laws, rules and regulations shall be applied in the interpretation, execution, and enforcement of this PO. The CUCC shall govern this PO in the case of goods unless otherwise agreed in this PO. Any provision included or incorporated herein by reference which conflicts with such laws, rules, and regulations is null and void. Any provision incorporated herein by reference which purports to negate this or any other provision in this PO in whole or in part shall not be valid or enforceable or available in any action at law, whether by way of complaint, defense, or otherwise. Unless otherwise specified in the solicitation or this PO, venue for any judicial or administrative action arising out of or in connection with this PO shall be in Denver, Colorado. Vendor shall exhaust administrative remedies in CRS §24-109-106, prior to commencing any judicial action against buyer.

25. Public Contracts for Services. *[Not Applicable to offer, issuance, or sale of securities, investment advisory services, fund management services, sponsored projects, intergovernmental POs, or information technology services or products and services]*

Vendor certifies, warrants, and agrees that it does not knowingly employ or contract with an illegal alien who will perform work under this PO and will confirm the employment eligibility of all employees who are newly hired for employment in the United States to perform work under this PO, through participation in the E-Verify Program or the Department program established pursuant to CRS §8-17.5-102(5)(c), Vendor shall not knowingly employ or contract with an illegal alien to perform work under this PO or enter into a contract or PO with a subcontractor that fails to certify to vendor that the subcontractor shall not knowingly employ or contract with an illegal alien to perform work under this PO. Vendor shall **(a)** not use E-Verify Program or Department program procedures to undertake pre-employment screening of job applicants during performance of this PO, **(b)** notify subcontractor and buyer within three days if vendor has actual knowledge that subcontractor is employing or contracting with an illegal alien for work under this PO, **(c)** terminate the subcontract if subcontractor does not stop employing or contracting with the illegal alien within three days of receiving notice, and **(d)** comply with reasonable requests made in the course of an investigation, undertaken pursuant to CRS §8-17.5-102(5), by the Colorado Department of Labor and Employment. If vendor participates in the Department program, vendor shall deliver to the buyer a written, notarized affirmation that vendor has examined the legal work status of such employee, and shall comply with all of the other requirements of the Department program. If vendor fails to comply with any requirement of this provision or CRS §8-17.5-101 et seq., buyer may terminate this PO for breach and, if so terminated, vendor shall be liable for damages.

26. Public Contracts with Natural Persons. Vendor, if a natural person eighteen (18) years of age or older, hereby swears and affirms under penalty of perjury that he or she **(a)** is a citizen or otherwise lawfully present in the United States pursuant to federal law, **(b)** shall comply with the provisions of CRS §24-76.5-101 et seq., and **(c)** has produced a form of identification required by CRS §24-76.5-103 prior to the date vendor delivers goods or begins performing services under terms of the PO.

Effective Date 01/01/09#